

Title (en)

Color sequential electronic camera.

Title (de)

Elektronische Kamera mit sequentieller Farbaufnahme.

Title (fr)

Caméra électronique prenant les couleurs de manière séquentielle.

Publication

EP 0660616 A3 19960424 (EN)

Application

EP 94120157 A 19941220

Priority

US 17173193 A 19931222

Abstract (en)

[origin: EP0660616A2] A color sequential electronic camera includes an RGB light source in which the R and G sources are activated in combination to provide a luminance light beam, and the R and B sources separately to provide separate chrominance light beams. Image light reflected by a subject is captured by an image sensor, which generates a color sequential signal comprising a sequence of luminance and chrominance image components. By activating the light sources such that chrominance light beams alternate between luminance light beams, the chrominance image components are captured at a lower temporal rate than the luminance image components. Furthermore, by binning the sensor photosites together for the chrominance image, the chrominance components are captured at a lower spatial resolution than the luminance image components. <IMAGE>

IPC 1-7

H04N 9/04; **H04N 5/225**

IPC 8 full level

G03G 15/05 (2006.01); **A61B 1/04** (2006.01); **G02B 23/24** (2006.01); **H04N 23/12** (2023.01); **H04N 25/46** (2023.01)

CPC (source: EP US)

H04N 23/555 (2023.01 - EP); **H04N 23/56** (2023.01 - EP US); **H04N 23/73** (2023.01 - EP US); **H04N 23/84** (2023.01 - EP US); **H04N 25/133** (2023.01 - EP); **H04N 25/135** (2023.01 - EP); **H04N 25/46** (2023.01 - EP US); **H04N 25/50** (2023.01 - EP US); **H04N 25/534** (2023.01 - EP US); **H04N 23/555** (2023.01 - US)

Citation (search report)

- [E] WO 9515061 A1 19950601 - APOLLO CAMERA LLC [US]
- [A] DE 3808011 A1 19880922 - OLYMPUS OPTICAL CO [JP]
- [A] US 5264925 A 19931123 - SHIPP JOHN I [US], et al

Cited by

GB2286939B; US6345765B1; CN111521113A; EP1531629A4; US6042013A; EP1051045A3; EP4210324A1; EP2877080A4; US7711252B2; CN111247554A; EP3709254A4; EP1667463A3; EP2877077A4; US9777913B2; US10670248B2; US11674677B2; US11363245B2; US10084944B2; US10911649B2; US11438490B2; US10251530B2; US11185213B2; US11974717B2; WO2023135021A1; US9641815B2; US10205877B2; US10917562B2; US10568496B2; US11083367B2; US9762879B2; US10277875B2; US10785461B2; US11070779B2; US11863878B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0660616 A2 19950628; **EP 0660616 A3 19960424**; **EP 0660616 B1 20000322**; DE 69423591 D1 20000427; DE 69423591 T2 20001019; EP 0964584 A1 19991215; JP H07240931 A 19950912; US 5523786 A 19960604

DOCDB simple family (application)

EP 94120157 A 19941220; DE 69423591 T 19941220; EP 99117157 A 19941220; JP 31796894 A 19941221; US 17173193 A 19931222